

Data Collection and Analysis for Continuous Improvement

Site Structure and Devices



Edit Site Structure

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Structure	Calibration	Download	Commissioning	Last Contact	Last Contact By	Serial Number
AIR CONCEPTS						
AHU-1-VAV-1						
1						
6 inch				5/14/24, 12:05 PM	Abhishek Pal	22230-40297-023-152
AHU-1-VAV-2						
2						
8 inch				1/5/23, 11:22 AM	Abhishek Pal	22230-40289-023-152
8						
10 inch				1/5/23, 11:43 AM	Abhishek Pal	22235-00139-023-159
AHU-1-VAV-3						
AHU-1-VAV-4						
AHU-1-VAV-5						
AHU-1-VAV-6						
AHU-1-CAV-1						



ISO 7235:2009 Testing Pictures

GALLOWAY'S WEB APPLICATION



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GALLOWAY ACOUSTICS

Galloway Acoustic

Galloway Acoustics have designed their range of Acoustics and non-Acoustics louvres with these perimeters in mind and can accommodate all potential applications that may require the use of louvres. All the Acoustics options have been tested at Salford University to a UKAS accredited standard.

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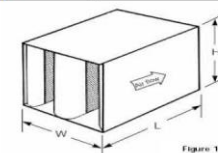
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Selection			Equipment SWL(dB)							
Fan Details	Room/Area Served	Fan Duty (m ³ /s)	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz
FAHU-A-04-01 EXHAUST	EXTERIOR SIDE	4.615	95	89	86	85	82	78	73	65

Duct Attenuation										
Duct Type	Length(m)/No	Dimension(mm)	63 Hz	125 Hz	250 Hz	500 Hz	1KHz	2 KHz	4 KHz	8 KHz
Rectangular	8	500	7	5	3	1	1	1	1	1
Rectangular	8	1150	5	3	1	1	1	1	1	1

Attenuations				63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz
Type											
End Reflection Loss	Grill Size: 1000 mm X 600 mm = 0.6	Grill Location: Flush	m ²	6	2	0	0	0	0	0	0
Sound Power Leaving				77	79	82	83	80	76	71	63
No. Of Noise Sources	2		nos	3	3	3	3	3	3	3	3
Sound Power to outlet	4.62		m ³ s	0	0	0	0	0	0	0	0
Distance To Listener	5		m	-25	-25	-25	-25	-25	-25	-25	-25
Directivity Factor	Grill Size: 1000 mm X 600 mm = 0.6		m ²	5	6	7	8	9	9	9	9
Direct SPL				60	63	67	69	67	63	58	50
Resultant SPL				60	63	67	69	67	63	58	50
NC/NR Standard	NC55			74	67	62	58	56	54	53	52
Attenuation Required				0	0	5	11	11	9	5	0
dBA Correction				-26	-16	-9	-3	0	1	1	-1
A-Weighted Equivalent				34	47	58	66	67	64	59	49
Resultant dBA Level (with attenuation)		55									

Schedule		Air Volume (m ³ s)	Max Pressure loss(Pa)	50	Melindex Required	Not Required
Code	Width(m)	Height(m)	Length(m)	Pressure Loss(Pa)	Quantity	
A14	1150	500	600	47	1	



Attenuator Performance							
63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz
6	8	11	16	20	18	13	11

- Online Engineering application for acoustic study.
- Selection of Acoustic products to solve complex noise control challenges.
- One stop noise solution for Building Acoustics.
- Design assistance for Consultants and contractors to select sound attenuators , Acoustic louvres and Enclosures

Continuous testing and performance optimization



Certificate of Product Ratings

AHRI Certified Reference Number : 204631581 Date : 09-19-2023 Model Status : Active

Old AHRI Reference Number :

Brand Name : Galloway

Model Number : PI-VAV-12

Product Type : Single Duct Terminal Unit (Supply)

Country Of Origin : India, Qatar, United Arab Emirates

Rated as follows in accordance with the latest edition of ANSI/AHRI 880 (I-P) with Addendum 1: Performance Rating of Air Terminals and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Rated Duct Width x Height, in : 16.00x15.00

Primary Air Flow Rate, CFM : 1600

Minimum Operating Pressure, in H2O : 0.05

Radiated Sound Power Level @ 1.5 in H2O Differential Static Pressure and 100% Rated Airflow, db

125 Hz : 66
250 Hz : 62
500 Hz : 54
1000 Hz : 46
2000 Hz : 40
4000 Hz : 36

Discharge Sound Power Level @ 1.5 in H2O Differential Static Pressure and 100% Rated Airflow, db

125 Hz : 68
250 Hz : 67
500 Hz : 62
1000 Hz : 60
2000 Hz : 59
4000 Hz : 57



 Publish Draft

























 Discard Draft

 Import from Excel

 Export to Excel

 Collapse All

 Deselect All  Add Building  Show/Hide Parameters

		Control				
Structure		V'min [m ³ /h]	V'max Cooling [m ³ /h]	V'max Heating [m ³ /h]	Application Number	Actions
	   AIR CONCEPTS					   
	   AHU-1-VAV-1					   
	   1					   

Design and Analysis sheet



GALLOWAY ACOUSTICS

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ATTENUMATE[®] SILENCERS



Leminar

Where Trust Matters

ENGINEERS
EXTERIOR
CALCULATION
SHEET

Project: SEVEN SEAS HEAD QUARTERS

	125	250	500	1k	2k	4k
Source Sound Power Level (point source)	102	101	96	97	89	83
Source to Receiver Distance (m)	9	-21	-21	-21	-21	-21
Directivity: 3, 6 or 9dB	3	3	3	3	3	3
Calculated Sound Pressure Level at Receiver with no screening effect (A)	84	83	78	79	71	65

POSITIVE SCREENING EFFECT

Source to Barrier	2.5
Barrier to Receiver	6
Barrier Height	4
Source Height	2.5
Receiver Height	1.5
Path Difference	0.86

dB(A) at listener with no screening: 83

Attenuation due to Screens

Path Difference	125	250	500	1k	2k	4k
0.50	10	12	15	18	20	23
1.00	12	14	18	20	23	25
2.00	15	18	20	24	27	29
3.00	17	20	22	25	28	30

Screening Effect from above table (B):	12	14	18	20	23	25
SRI of Screen Panels (C):	19	24	36	44	48	50
Level at Receiver due to Screening Effect (A - B)=D:	72	69	60	59	48	40
Level at Receiver due to Direct Transmission (A - C)=E:	65	59	42	35	23	15